

STIC Search

lucas - 10 / 062954

Page 1

=> d his

(FILE 'HOME' ENTERED AT 08:24:47 ON 07 JAN 2004)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 08:24:59 ON 07 JAN 2004

		E BOTOX/CN
L1	1	S E3
		E BOTULIN/CN
L2	1	S E3
		E BOTULIN
L3	2156	S E3,E4,E7
		E CLOSTRIDIUM
L4	16633	S E3-E7
L5	2096	S L1-L3 AND L4
L6	2156	S L1-L3,L5
L7	14537	S L4 NOT L6

FILE 'HCAPLUS' ENTERED AT 08:26:45 ON 07 JAN 2004

		E ACUPUNCTURE/CW
		E ACUPUNCTURE/CW
L8	894	S E3
		E ACUPUNCTURE/CT
L9	894	S E3-E5
		E E3+ALL
L10	894	S L8,L9
		E ACUPUNCT
L11	1092	S E4-E13
L12	1092	S L8-L11
L13	1570	S L6
L14	9110	S L7
L15	98	S BOTOX
L16	4505	S BOTULINUM
L17	22469	S CLOSTRIDIUM
		E BOTULIN/CT
L18	1171	S E3-E8
		E E8+ALL
		E E2+ALL
L19	716	S E4
L20	528	S E3
L21	1774	S BOTULIN
		E CLOSTRIDIUM/CT
L22	1646	S E39-E46
		E E39+ALL
L23	80	S E7/BI
L24	3	S L12 AND L13-L23
L25	2	S L24 AND PAIN
		E SPINE/CT
		E E3+ALL
		E E3+ALL
L26	3325	S E9
		E E15+ALL
L27	23756	S E4
		E E9+ALL
L28	3882	S E5,E4+NT
		E LAMB G/AU
L29	13	S E3,E5,E45,E47,E48
L30	2	S L29 AND L12
L31	2	S L29 AND L13-L28
L32	1	S L29 AND L26-L28
L33	2	S L30-L32
L34	2	S L25,L33
L35	91	S L26-L28 AND L12

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L36      164 S L26-L28 AND L13-L23
L37      1 S L35 AND L36
L38      67 S L35,L36 AND (?MUSCL? OR ?MUSCUL?)
L39      31 S L38 AND (NEEDL? OR SYRING? OR INJECT?)
          SEL DN AN 1 5 7 31
L40      4 S E1-E12 AND L39
L41      5 S L34,L37,L40 AND L8-L40
L42      48 S L35,L36 AND PAIN
          E PAIN/CT
L43      11328 S E3-E14
          E E3+ALL
L44      11167 S E3
          E E12+ALL
L45      1494 S E11,E12,E10+NT
          E NOCICEPT?
          E NOCICEP?
L46      8876 S NOCICEP?
          E ANALGES/CT
          E E4+NT
          E E1+ALL
L47      9081 S E3
L48      30593 S E5
L49      412 S L12-L23 AND L43-L48
L50      65 S L49 AND L26-L28
L51      16 S L50 AND (?MUSCL? OR ?MUSCUL?)
L52      28 S L50 AND (INJECT? OR SYRING? OR NEEDL?)
L53      43 S L50 AND L12
L54      2 S L51 AND L52,L53
L55      1 S L54 NOT HEPARIN
L56      72 S L42,L50-L53
L57      70 S L56 NOT L41
          SEL DN AN 23 28
L58      2 S E1-E6
L59      7 S L41,L55,L58 AND L8-L48
L60      72 S L56 AND (?SPINE? OR ?SPINAL?)
L61      4 S L59 AND L60
L62      7 S L59 AND (?SPINE? OR ?SPINAL?)
L63      7 S L61,L62
          SEL HIT RN

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FILE 'REGISTRY' ENTERED AT 09:00:26 ON 07 JAN 2004

L64 9 S E7-E15 AND L1-L7

=> fil reg

FILE 'REGISTRY' ENTERED AT 09:00:49 ON 07 JAN 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 5 JAN 2004 HIGHEST RN 634558-38-6

DICTIONARY FILE UPDATES: 5 JAN 2004 HIGHEST RN 634558-38-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more

information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d ide can tot 164

L64 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN 107231-16-3 REGISTRY
CN Botulin G (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Botulin toxin G
CN Botulinum toxin G
CN Toxin, botulin, G
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
72 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
72 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:8814
REFERENCE 2: 139:358792
REFERENCE 3: 139:255365
REFERENCE 4: 139:129339
REFERENCE 5: 139:128046
REFERENCE 6: 139:122752
REFERENCE 7: 139:122751
REFERENCE 8: 139:41797
REFERENCE 9: 138:348739
REFERENCE 10: 138:265639

L64 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN 107231-15-2 REGISTRY
CN Botulin F (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Botulin F toxin
CN Botulinum toxin f
MF Unspecified
CI MAN
SR CA
LC STN Files: ANABSTR, CA, CAPLUS, CHEMCATS, CSCHEM, IPA, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
118 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
119 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:8814
REFERENCE 2: 139:358792

REFERENCE 3: 139:281298
REFERENCE 4: 139:259617
REFERENCE 5: 139:255365
REFERENCE 6: 139:211428
REFERENCE 7: 139:160870
REFERENCE 8: 139:147994
REFERENCE 9: 139:132453
REFERENCE 10: 139:129339

L64 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN

RN 107231-13-0 REGISTRY

CN Botulin C1 (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Botulinum toxin C1

CN C1 botulin toxin

CN Toxin, botulin, C1

MF Unspecified

CI MAN

SR CA

LC STN Files: BIOSIS, CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

72 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

72 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:8814
REFERENCE 2: 139:358792
REFERENCE 3: 139:345943
REFERENCE 4: 139:147994
REFERENCE 5: 139:129339
REFERENCE 6: 139:128333
REFERENCE 7: 139:122752
REFERENCE 8: 139:122751
REFERENCE 9: 138:363048
REFERENCE 10: 138:333062

L64 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN

RN 107231-12-9 REGISTRY

CN Botulin (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Toxins, botulin

MF Unspecified

CI MAN

SR CA

LC STN Files: ADISNEWS, AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CEN,

CIN, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

523 REFERENCES IN FILE CA (1907 TO DATE)

15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

528 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:12389
REFERENCE 2: 140:8814
REFERENCE 3: 140:8762
REFERENCE 4: 139:386257
REFERENCE 5: 139:376587
REFERENCE 6: 139:358792
REFERENCE 7: 139:334208
REFERENCE 8: 139:316346
REFERENCE 9: 139:302954
REFERENCE 10: 139:296940

L64 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN

RN 93384-47-5 REGISTRY

CN Botulin E (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Botulinum toxin E

CN Toxin, botulin, E

MF Unspecified

CI MAN

SR Commission of European Communities

LC STN Files: ANABSTR, BIOSIS, CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM,
TOXCENTER, USPAT2, USPATFULL

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

212 REFERENCES IN FILE CA (1907 TO DATE)

9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

212 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:8814
REFERENCE 2: 139:358792
REFERENCE 3: 139:345943
REFERENCE 4: 139:281298
REFERENCE 5: 139:255365
REFERENCE 6: 139:211428
REFERENCE 7: 139:147994
REFERENCE 8: 139:132453
REFERENCE 9: 139:129339

REFERENCE 10: 139:128333

L64 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN

RN 93384-46-4 REGISTRY

CN Botulin D (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Botulin toxin D

CN Botulinum toxin D

CN Toxin, botulin, D

MF Unspecified

CI MAN

SR Commission of European Communities

LC STN Files: BIOSIS, CA, CAPLUS, CHEMLIST, CSCHM, RTECS*, TOXCENTER,
USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

124 REFERENCES IN FILE CA (1907 TO DATE)

8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

124 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:13917

REFERENCE 2: 140:8814

REFERENCE 3: 139:379607

REFERENCE 4: 139:358792

REFERENCE 5: 139:345943

REFERENCE 6: 139:318891

REFERENCE 7: 139:281298

REFERENCE 8: 139:255365

REFERENCE 9: 139:147994

REFERENCE 10: 139:129339

L64 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN

RN 93384-45-3 REGISTRY

CN Botulin C (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Botulin toxin C

CN Toxin, botulin, C

MF Unspecified

CI MAN

SR Commission of European Communities

LC STN Files: ANABSTR, CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHM, TOXCENTER,
USPAT2, USPATFULL

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

101 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

101 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:379607
REFERENCE 2: 139:317391
REFERENCE 3: 139:281298
REFERENCE 4: 139:255365
REFERENCE 5: 139:244794
REFERENCE 6: 139:207733
REFERENCE 7: 139:128046
REFERENCE 8: 139:41797
REFERENCE 9: 139:30808
REFERENCE 10: 138:397330

L64 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN

RN 93384-44-2 REGISTRY

CN Botulin B (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Botulin toxin B

CN Botulinum toxin B

CN Myobloc

CN NeuroBloc

MF Unspecified

CI MAN

SR Commission of European Communities

LC STN Files: ANABSTR, BIOSIS, CA, CAPLUS, CBNB, CHEMCATS, CHEMLIST, CIN,
CSCHEM, IPA, MRCK*, RTECS*, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

286 REFERENCES IN FILE CA (1907 TO DATE)

12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

287 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:8814
REFERENCE 2: 139:392360
REFERENCE 3: 139:381727
REFERENCE 4: 139:376528
REFERENCE 5: 139:376523
REFERENCE 6: 139:358792
REFERENCE 7: 139:354230
REFERENCE 8: 139:345943
REFERENCE 9: 139:345817
REFERENCE 10: 139:281298

L64 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN

RN 93384-43-1 REGISTRY
CN Botulin A (9CI) (CA INDEX NAME)
OTHER NAMES:
CN AGN 191622
CN Botox
CN Botulin neurotoxin A
CN Botulin toxin A
CN Botulinium toxin type A
CN Botulinum toxin A
CN Botulinum toxin type A
CN Dysport
CN Oculinum
MF Unspecified
CI MAN
SR Commission of European Communities
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CAPLUS, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHM, DIOGENES, EMBASE,
IMSCOSEARCH, IMSDRUGNEWS, IMSRESEARCH, IPA, MRCK*, PHAR, PROMT, RTECS*,
TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

713 REFERENCES IN FILE CA (1907 TO DATE)

21 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

716 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:13917
REFERENCE 2: 140:8814
REFERENCE 3: 139:381727
REFERENCE 4: 139:363638
REFERENCE 5: 139:360806
REFERENCE 6: 139:358792
REFERENCE 7: 139:358643
REFERENCE 8: 139:354230
REFERENCE 9: 139:345943
REFERENCE 10: 139:345817

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 09:00:59 ON 07 JAN 2004

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FILE COVERS 1907 - 7 Jan 2004 VOL 140 ISS 2
FILE LAST UPDATED: 6 Jan 2004 (20040106/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all tot 163

L63 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:610292 HCAPLUS
DN 139:128046
ED Entered STN: 08 Aug 2003
TI Method using **botulinum** toxin for treatment of **pain**
IN **Lamb, Gregory B.**
PA 1474791 Ontario Limited, Can.
SO PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K039-08
CC 1-11 (Pharmacology)
Section cross-reference(s): 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003063898	A2	20030807	WO 2003-CA127	20030129
	WO 2003063898	A3	20031002		
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		

PRAI CA 2002-2369810 A 20020130

AB A method of treating **pain** in provided. The method comprises administering to the intrinsic **spinal muscles** of a mammal an amount of a toxin, especially **botulinum** toxin, sufficient to paralyze the **muscles**. This prevents the **muscles** from shortening and can allow healing to occur. The paralyzing agent may use in combination with a growth factor to treat **spinal** compression. A kit for the treatment of **pain** by injection of the intrinsic **spinal muscles** is also provided. The kit comprises a paralyzing agent, an **injection syringe** with **needle**, and an **acupuncture needle** with **injector** system.

ST **botulinum** toxin analgesic intrinsic **spinal** muscle paralysis

IT **Analgesics**

Muscle relaxants

Needles (tools)

Pain

(**botulinum** toxin for treatment of **pain**)

IT **Spinal cord**

(cervical; **botulinum** toxin for treatment of **pain**)

- IT Spinal column, disease
(degenerated spinal disk; botulinum toxin for treatment of pain)
- IT Spinal column, disease
(facet joint disease of the spine; botulinum toxin for treatment of pain)
- IT Drug delivery systems
(injections; botulinum toxin for treatment of pain)
- IT Spinal column, disease
(intervertebral disk hernia; botulinum toxin for treatment of pain)
- IT Muscle
Paralysis
Spinal column
(intrinsic spinal muscle paralysis; botulinum toxin for treatment of pain)
- IT Anesthetics
(local; botulinum toxin for treatment of pain, and use with other agents)
- IT Spinal cord
(lumbar; botulinum toxin for treatment of pain)
- IT Acupuncture
(needles; botulinum toxin for treatment of pain)
- IT Nerve, disease
(neuropathy, myofascial compression/traction neuropathy of the spine; botulinum toxin for treatment of pain)
- IT Spinal column, disease
(spinal compression; botulinum toxin for treatment of pain)
- IT Spinal column, disease
(spinal stenosis; botulinum toxin for treatment of pain)
- IT Spinal cord
(thoracic; botulinum toxin for treatment of pain)
- IT Growth factors, animal
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tissue growth factor; botulinum toxin for treatment of pain, and use with other agents)
- IT 93384-43-1, Botulin A 93384-44-2, Botulin B 93384-45-3, Botulin C 93384-46-4, Botulin D 93384-47-5, Botulin E 107231-12-9, Botulin 107231-15-2, Botulin F 107231-16-3, Botulin G
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(botulinum toxin for treatment of pain)
- IT 137-58-6, Xylocaine 38396-39-3, Marcaine 98717-15-8, Naropin
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(botulinum toxin for treatment of pain, and use with other agents)

L63 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:590600 HCAPLUS
 DN 139:138743
 ED Entered STN: 01 Aug 2003
 TI Botulinum toxin for treating pain
 IN Lamb, Gregory Blair

PA Can.
 SO U.S. Pat. Appl. Publ., 9 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 IC ICM A61K039-08
 ICS A61K038-18
 NCL 424239100; 514012000
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 1
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003143249	A1	20030731	US 2002-62954	20020131
PRAI	US 2002-62954		20020131		

AB A method for treatment of **pain** comprising administering to the intrinsic **spinal** muscles of a mammal a paralyzing agent, i.e., **botulinum** toxin, is described. The method further comprises the administration of a local anesthetic and a tissue growth factor to enhance healing. A kit containing **botulinum** toxin, saline, a syringe with needle for dispensing saline into toxin, an **acupuncture** needle with **spinal acupuncture** injector system, and least one injection syringe is also provided.

ST **botulinum** toxin injection **spinal** muscle paralysis
pain

IT Toxoids
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (**botulin**; **botulinum** toxin injection to intrinsic **spinal** muscles for **pain** treatment)

IT Human
Pain
 (**botulinum** toxin injection to intrinsic **spinal** muscles for **pain** treatment)

IT Growth factors, animal
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (combination with; **botulinum** toxin injection to intrinsic **spinal** muscles for **pain** treatment)

IT Drug delivery systems
 (injections, i.m.; **botulinum** toxin injection to intrinsic **spinal** muscles for **pain** treatment)

IT Anesthetics
 (local, combination with; **botulinum** toxin injection to intrinsic **spinal** muscles for **pain** treatment)

IT Muscle
 (**spinal**; **botulinum** toxin injection to intrinsic **spinal** muscles for **pain** treatment)

IT 137-58-6, Xylocaine 38396-39-3, Marcaine 98717-15-8, Naropin
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (combination with; **botulinum** toxin injection to intrinsic **spinal** muscles for **pain** treatment)

L63 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:595499 HCAPLUS

DN 137:145554

ED Entered STN: 09 Aug 2002

TI Methods of administering **botulinum** toxin

IN Walker, Patricia S.

PA Allergan Sales, Inc., USA

SO U.S. Pat. Appl. Publ., 33 pp., Cont.-in-part of U. S. Ser. No. 730,237.
 CODEN: USXXCO

DT Patent

LA English

IC ICM A61K048-00
 ICS A61K038-16
 NCL 514012000
 CC 63-5 (Pharmaceuticals)
 Section cross-reference(s): 1, 62
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002107199	A1	20020808	US 2002-51952	20020117
	US 2002086036	A1	20020704	US 2000-730237	20001205
PRAI	US 2000-730237	A2	20001205		

AB Methods for treating conditions in an animal or human subject are disclosed. The conditions may be **pain**, skeletal **muscle** conditions, smooth **muscle** conditions, glandular conditions and cosmetic conditions. The methods comprise the step of administering a **Clostridium** neurotoxin component or **Clostridium** neurotoxin component-encoding DNA to the subject using a **needleless syringe**.

ST **botulinum** toxin **syringe** administration skin sequence

IT Gene, microbial
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 PRP (Properties); BIOL (Biological study); PREP (Preparation)
 (BoNT/A-L; administration of **botulinum** toxin)

IT Nerve, disease
 (achalasia; administration of **botulinum** toxin)

IT DNA sequences
 Gene therapy
 Headache
 Human
 Ice
 Molecular cloning
 Transformation, genetic
 Tremor
 (administration of **botulinum** toxin)

IT Fusion proteins (chimeric proteins)
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 BIOL (Biological study); PREP (Preparation)
 (administration of **botulinum** toxin)

IT Skin, disease
 (aging, wrinkles; administration of **botulinum** toxin)

IT Intestine
 (anus, anismus; administration of **botulinum** toxin)

IT Intestine
 (anus, fissure; administration of **botulinum** toxin)

IT Mouth, disease
 (bruxism; administration of **botulinum** toxin)

IT Drug delivery systems
 (carriers; administration of **botulinum** toxin)

IT **Spinal cord**
 (cervical, dystonia; administration of **botulinum** toxin)

IT Appetite
 (disorder, dysphagia; administration of **botulinum** toxin)

IT Skin
 (drug delivery to; administration of **botulinum** toxin)

IT Nervous system, disease
 (dystonia, of larynx; administration of **botulinum** toxin)

IT Larynx
 (dystonia; administration of **botulinum** toxin)

IT Head
 (face, spasm; administration of **botulinum** toxin)

IT **Muscle**, disease
 (fibromyalgia; administration of **botulinum** toxin)

IT Hand

(focal hand dystonia; administration of **botulinum** toxin)

IT Drug delivery systems
(implants; administration of **botulinum** toxin)

IT Eye
(lid, blepharospasm; administration of **botulinum** toxin)

IT Eye
(lid, disorders; administration of **botulinum** toxin)

IT Tongue
(lingual dystonia; administration of **botulinum** toxin)

IT **Syringes**
(**needleless**; administration of **botulinum** toxin)

IT Bladder, disease
(neurogenic bladder; administration of **botulinum** toxin)

IT **Clostridium botulinum**
(neurotoxin of; administration of **botulinum** toxin)

IT **Clostridium butyricum**
Clostridium difficile
(neurotoxin; administration of **botulinum** toxin)

IT Toxins
RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(neurotoxins; administration of **botulinum** toxin)

IT Head, disease
(oromandibular dysphonia; administration of **botulinum** toxin)

IT Gastric juice
Mucus
Saliva
(production of excess; administration of **botulinum** toxin)

IT **Muscle**, disease
(spasm, blepharospasm; administration of **botulinum** toxin)

IT **Muscle**, disease
(spasm, hemifacial; administration of **botulinum** toxin)

IT **Muscle**, disease
(spasm; administration of **botulinum** toxin)

IT Arm
Leg
Nervous system, disease
(spasticity; administration of **botulinum** toxin)

IT Disease, animal
(speech disorder, spasmodic dysphonia; administration of **botulinum** toxin)

IT Eye, disease
(strabismus; administration of **botulinum** toxin)

IT Nerve
(subdermal; administration of **botulinum** toxin)

IT Toxins
RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(tetanus; administration of **botulinum** toxin)

IT Eye
(tic; administration of **botulinum** toxin)

IT **Muscle**
(transfection of; administration of **botulinum** toxin)

IT Larynx
(vocal cord, spasmodic dysphonia; administration of **botulinum** toxin)

IT 7440-06-4, Platinum, biological studies 7440-33-7, Tungsten, biological studies 7440-57-5, Gold, biological studies
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(administration of **botulinum** toxin)

IT 93384-43-1, Botulin a 93384-44-2,
 Botulin b 93384-46-4, Botulin d
 93384-47-5, Botulin e 107231-12-9,
 Botulin 107231-13-0, Botulin cl
 107231-15-2, Botulin f 107231-16-3,
 Botulin g
 RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical
 process); PRP (Properties); PYP (Physical process); THU (Therapeutic use);
 BIOL (Biological study); PROC (Process); USES (Uses)
 (administration of **botulinum** toxin)

IT 444957-06-6 444957-07-7 444957-08-8 444957-09-9 444957-10-2
 444957-11-3 444957-12-4 444957-13-5 444957-14-6 444957-15-7
 444957-16-8
 RL: PRP (Properties)
 (unclaimed nucleotide sequence; administration of **botulinum**
 toxin)

IT 439904-18-4
 RL: PRP (Properties)
 (unclaimed sequence; administration of **botulinum** toxin)

L63 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:516287 HCAPLUS
 DN 135:71299
 ED Entered STN: 18 Jul 2001
 TI Method for treating dystonia with **botulinum** toxin types c to g
 IN Aoki, Roger K.; Grayston, Michael W.; Carlson, Steven R.; Leon, Judith M.
 PA Allergan Sales, Inc., USA
 SO Pat. Specif. (Aust.), 25 pp.
 CODEN: ALXXAP
 DT Patent
 LA English
 IC ICM A61K038-48
 ICS A61P021-00
 CC 1-11 (Pharmacology)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	AU 727583	B2	20001214	AU 2000-16368	20000211
PRAI	AU 2000-16368		20000211		
AB	The invention provides a method for treating dystonia, the method comprising the step of administering to a patient suffering from dystonia an effective amount of a botulinum toxin selected from the group consisting of the botulinum toxin types C, D, E, F and G, thereby alleviating a symptom of the dystonia and compns. useful for same.				
ST	botulin toxin dystonia spasticity therapy				
IT	Toxoids RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (botulin ; method for treating dystonia and spasticity with botulinum toxins)				
IT	Nervous system (cholinergic, secretion controlled by; method for treating dystonia and spasticity with botulinum toxins)				
IT	Artery (coronary, arteriole, sphincters, spasm; method for treating dystonia and spasticity with botulinum toxins)				
IT	Nervous system (dystonia; method for treating dystonia and spasticity with botulinum toxins)				
IT	Spinal cord (injury, spasticity from; method for treating dystonia and spasticity with botulinum toxins)				

IT Tear (ocular fluid)
(lacrimation; method for treating dystonia and spasticity with **botulinum** toxins)

IT Analgesics
Sweat
(method for treating dystonia and spasticity with **botulinum** toxins)

IT Reflex
(palatal, swallowing disorders; method for treating dystonia and spasticity with **botulinum** toxins)

IT Intestine
(rectum, sphincters, spasm; method for treating dystonia and spasticity with **botulinum** toxins)

IT Mucus
(secretion; method for treating dystonia and spasticity with **botulinum** toxins)

IT Muscle, disease
(spasm; method for treating dystonia and spasticity with **botulinum** toxins)

IT Muscle, disease
(spasmodic torticollis of neck; method for treating dystonia and spasticity with **botulinum** toxins)

IT Muscle relaxants
(spasmolytics; method for treating dystonia and spasticity with **botulinum** toxins)

IT Nervous system
(spasticity; method for treating dystonia and spasticity with **botulinum** toxins)

IT Digestive tract
Gallbladder
Urinary tract
(sphincters, spasm; method for treating dystonia and spasticity with **botulinum** toxins)

IT Brain, disease
(stroke, spasticity from; method for treating dystonia and spasticity with **botulinum** toxins)

IT Nervous system
(tardive dyskinesia; method for treating dystonia and spasticity with **botulinum** toxins)

IT Joint, anatomical
(temporomandibular, spasm; method for treating dystonia and spasticity with **botulinum** toxins)

IT Headache
(tension headache; method for treating dystonia and spasticity with **botulinum** toxins)

IT Brain, disease
(trauma, spasticity from; method for treating dystonia and spasticity with **botulinum** toxins)

IT 93384-43-1, Botulin A 93384-44-2,
Botulin B 93384-45-3, Botulin C
93384-46-4, Botulin D 93384-47-5,
Botulin E 107231-15-2, Botulin F
107231-16-3, Botulin G
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(method for treating dystonia and spasticity with **botulinum** toxins)

L63 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:630533 HCAPLUS
DN 134:127082
ED Entered STN: 12 Sep 2000

TI **Botulinum-A** toxin for treating detrusor hyperreflexia in spinal cord injured patients: A new alternative to anticholinergic drugs? Preliminary results

AU Schurch, B.; Stohrer, M.; Kramer, G.; Schmid, D. M.; Gaul, G.; Hauri, D.

CS Swiss Paraplegic Centre, University Hospital Balgrist and Department of Urology, University Hospital, Zurich, 8008, Switz.

SO Journal of Urology (Baltimore) (2000), 164(3, Pt. 1), 692-697
CODEN: JOURAA; ISSN: 0022-5347

PB Lippincott Williams & Wilkins

DT Journal

LA English

CC 1-11 (Pharmacology)

AB We evaluated the efficacy of **botulinum-A** toxin **injections** into the detrusor muscle in patients with spinal cord injury, detrusor hyperreflexia and urge incontinence resistant to anticholinergic drugs. The purpose of treatment was to suppress incontinence episodes and increase functional bladder capacity. Included in our prospective nonrandomized study done at 2 clinics were 31 patients with traumatic spinal cord injury who emptied the bladder by intermittent self-catheterization. These patients had severe detrusor hyperreflexia and incontinence despite a high dose of anticholinergic medication. Pretreatment evaluation included a clin. examination and complete urodynamic investigation. Under cystoscopic control a total of 200 to 300 units of **botulinum-A** toxin were **injected** into the detrusor muscle at 20 to 30 sites (10 units per mL. per site), sparing the trigone. Clin. and urodynamic follow up was planned for 6, 16 and 36 wk after treatment. Patients were asked to decrease their intake of anticholinergic drugs during week 1 after treatment. Of the 21 patients 19 underwent a complete examination 6 wk after the **botulinum-A** toxin **injections**, and 11 at 16 and 36 wk. At the 6-wk follow up complete continence was restored in 17 of 19 cases in which anticholinergic medication was markedly decreased or withdrawn. Less satisfactory results in 2 cases were associated with an insufficient dose of 200 units **botulinum-A** toxin. After the **injections** overall mean reflex volume and mean maximum cytometric bladder capacity plus or minus standard deviation significantly increased from 215.8 ± 90.4 mL. to 415.7 ± 211.1 (p < 0.016) and 296.3 ± 145.2 to 480.5 ± 134.1 (p < 0.016), resp. There was also a significant decrease after treatment in mean maximum detrusor voiding pressure from 65.6 ± 29.2 cm. water to 35 ± 32.1 (p < 0.016). Mean post-void residual urine volume catheterized at the end of the urodynamic examination increased significantly from a mean of 261.8 ± 241.3 mL. to 490.5 ± 204.8 (p < 0.016). Moreover, autonomic dysreflexia associated with bladder emptying that manifested as a hypertensive crisis during voiding disappeared after treatment in the 3 patients with tetraplegia. Satisfaction was high in all successfully treated patients and no side effects were observed. Ongoing improvement in urodynamic parameters and incontinence was already present in all patients reevaluated at 16 and 36 wk. **Botulinum-A** toxin **injections** into the detrusor seem to be a safe and valuable therapeutic option in spinal cord injured patients with incontinence resistant to anticholinergic medication who perform clean intermittent self-catheterization. Successfully treated patients become continent again and may withdraw from or markedly decrease anticholinergic drug intake. A dose of 300 units **botulinum-A** toxin seems to be needed to counteract an overactive detrusor. The duration of bladder paresis induced by the toxin is at least 9 mo, when repeat **injections** are required.

ST **botulinum A** toxin detrusor hyperreflexia incontinence spinal injury; hyperreflexia **botulinum A** toxin detrusor incontinence spinal injury; detrusor hyperreflexia incontinence **botulinum A** toxin spinal injury; spinal injury **botulinum A** toxin detrusor hyperreflexia incontinence

IT Cholinergic antagonists

Neuromuscular blocking agents

(**botulinum-A** toxin for treating detrusor hyperreflexia in spinal cord injured patients)

IT Bladder

(hyperreflexia; **botulinum-A** toxin for treating detrusor hyperreflexia in spinal cord injured patients)

IT Bladder

(incontinence; **botulinum-A** toxin for treating detrusor hyperreflexia in spinal cord injured patients)

IT Spinal cord

(injury; **botulinum-A** toxin for treating detrusor hyperreflexia in spinal cord injured patients)

IT 93384-43-1, Botulin A

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(**botulinum-A** toxin for treating detrusor hyperreflexia in spinal cord injured patients)

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L63 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:622395 HCAPLUS

DN 133:187976
 ED Entered STN: 07 Sep 2000
 TI Methods for treating **pain** with an intrathecally administered neurotoxin
 IN Aoki, Kei Roger; Cui, Minglei
 PA Allergan Sales, Inc., USA
 SO U.S., 20 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM A61K039-08
 NCL 424236100
 CC 1-11 (Pharmacology)
 Section cross-reference(s): 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6113915	A	20000905	US 1999-417195	19991012
	WO 2001026736	A2	20010419	WO 2000-US12597	20000509
	WO 2001026736	A3	20020321		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 2000049954	A5	20010423	AU 2000-49954	20000509
	BR 2000014710	A	20020618	BR 2000-14710	20000509
	EP 1237566	A2	20020911	EP 2000-932200	20000509
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003514594	T2	20030422	JP 2001-529797	20000509
	US 6235289	B1	20010522	US 2000-578097	20000525
	US 6333037	B1	20011225	US 2000-578181	20000525
	US 2001012828	A1	20010809	US 2001-797556	20010301
	US 6372226	B2	20020416		
PRAI	US 1999-417195	A	19991012		
	WO 2000-US12597	W	20000509		
	US 2000-578097	A1	20000525		
AB	Methods are disclosed for treating pain by intrathecal administration to a human patient of a therapeutically effective amount of a neurotoxin, e.g. botulinum toxin type A.				
ST	intrathecal neurotoxin pain treatment; botulinum toxin intrathecal pain treatment				
IT	Pain				
	Pain				
	Skin, disease				
	Skin, disease				
	(allodynia; pain treatment with intrathecally administered neurotoxin)				
IT	Nervous system				
	(central, cranial region; pain treatment with intrathecally administered neurotoxin)				
IT	Spinal cord				
	(cervical; pain treatment with intrathecally administered neurotoxin)				
IT	Inflammation				
	(inflammatory pain ; pain treatment with intrathecally administered neurotoxin)				
IT	Drug delivery systems				

- (injections; pain treatment with intrathecally administered neurotoxin)
- IT Drug delivery systems
(intrathecal; pain treatment with intrathecally administered neurotoxin)
- IT Spinal cord
(lumbar; pain treatment with intrathecally administered neurotoxin)
- IT Nerve, disease
(neuropathy, neuropathic pain; pain treatment with intrathecally administered neurotoxin)
- IT Toxins
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(neurotoxins, botulinum toxins; pain treatment with intrathecally administered neurotoxin)
- IT Analgesics
(pain treatment with intrathecally administered neurotoxin)
- IT Spinal cord
(sacral region; pain treatment with intrathecally administered neurotoxin)
- IT Spinal cord
(thoracic; pain treatment with intrathecally administered neurotoxin)
- IT 93384-43-1, Botulin toxin A 93384-44-2, Botulin toxin B 93384-45-3, Botulin toxin C 93384-46-4, Botulin toxin D 93384-47-5, Botulin E 107231-15-2, Botulin F 107231-16-3, Botulin toxin G
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pain treatment with intrathecally administered neurotoxin)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

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L63 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1956:79038 HCAPLUS
DN 50:79038
OREF 50:14975e-g
ED Entered STN: 22 Apr 2001
TI The seat of botulism toxin action on the interneural connections of the
spinal cord
AU Mikhailov, V. V.
CS I. V. Stalin 2nd Med. Inst., Moscow
SO Arkhiv Patologii (1956), 18(No. 4), 29-34
CODEN: ARPTAF; ISSN: 0004-1955
DT Journal
LA Unavailable
CC 11H (Biological Chemistry: Pharmacology)
AB Expts. were performed with cats. These were given botulism toxin type A
intramuscularly and intravenously in doses of 6000-7500 M.L.D./kg.
body weight Paralysis of appendages appeared in 2-3 days. Reflex test
procedures are described in detail. Damage to the reflex activity of the
spinal cord developed as a result of the toxin administration. As
the damage progressed simple and complex spinal reflexes of the
paralyzed appendage disappeared with the simultaneous appearance of the
usual contralateral reflexes in the non-paralyzed appendage. Botulism
toxin, it seems, does not adversely affect the afferent and intermittent
branches of the spinal reflex arc. Botulism toxin
injected intravenously produced no noteworthy effects upon the
chemoreceptor formations of the skin and of the striated muscles

IT Toxins
(of Clostridium botulinum, spinal cord
reflex damage from)

IT Clostridium botulinum
(toxins of, spinal cord reflex damage from)

IT Spinal cord
(Clostridium botulinum toxin damage of)

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substance identification.

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L120 ANSWER 1 OF 2 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 2003016382 EMBASE
TI Chronic pain secondary to disability: A review.
AU Ehde D.M.; Jensen M.P.; Engel J.M.; Turner J.A.; Hoffman A.J.; Cardenas
D.D.
CS Dr. D.M. Ehde, Dept. of Rehabilitation Medicine, Box 359740, Harborview
Medical Center, 325 9th Avenue, Seattle, WA 98104-2499, United States.
ehde@u.washington.edu
SO Clinical Journal of Pain, (2003) 19/1 (3-17).

Refs: 143

ISSN: 0749-8047 CODEN: CJPAEU

CY United States

DT Journal; General Review

FS 008 Neurology and Neurosurgery

017 Public Health, Social Medicine and Epidemiology

019 Rehabilitation and Physical Medicine

024 Anesthesiology

037 Drug Literature Index

LA English

SL English

AB Background: Until recently, very little has been written regarding chronic pain as a secondary problem in persons who already have a physical disability, despite the potential for pain to increase the negative impact of what may already be a very disabling condition. The purpose of this review is to summarize what is currently known concerning the nature and scope of chronic pain as a secondary condition to disability, specifically **spinal** cord injury, acquired amputations, cerebral palsy, multiple sclerosis, neuromuscular disease, and postpolio syndrome. Method: What is known concerning the frequency, severity, impact, and treatment of pain in these specific conditions is reviewed, as are the factors that contribute to, or are associated with, adjustment to chronic pain in these disability groups. The authors conclude with several research questions that emerge from this knowledge, the answers to which will contribute to the long-term goal of the reduction of pain and suffering in persons with disabilities. Conclusions: The existing literature clearly documents that many persons with disabilities experience chronic pain. Many questions remain unanswered regarding the scope, severity, and treatment of chronic pain in these groups.

CT Medical Descriptors:

*chronic pain: CO, complication

*chronic pain: DI, diagnosis

*chronic pain: DT, drug therapy

*chronic pain: TH, therapy

*physical disability

spinal cord injury: EP, epidemiology
amputation

cerebral palsy: DI, diagnosis

cerebral palsy: EP, epidemiology

multiple sclerosis

neuromuscular disease

postpoliomyelitis syndrome

disease severity

morbidity

physiotherapist

acupuncture

alternative medicine

behavior therapy

cognitive therapy

relaxation training

transcutaneous nerve stimulation

phantom pain: CO, complication

phantom pain: DT, drug therapy

phantom pain: PC, prevention

phantom pain: TH, therapy

neuropathic pain: CO, complication

neuropathic pain: DT, drug therapy

neuropathic pain: TH, therapy

epidural anesthesia

drug efficacy

social psychology

human

review

priority journal
 Drug Descriptors:
 trazodone: DT, drug therapy
 mexiletine: DT, drug therapy
 valproic acid: DT, drug therapy
 amitriptyline: DT, drug therapy
 opiate: DT, drug therapy
 anesthetic agent: DT, drug therapy
 baclofen: DT, drug therapy
 baclofen: TL, intrathecal drug administration

botulinum toxin: DT, drug therapy

RN (trazodone) 19794-93-5, 25332-39-2; (mexiletine) 31828-71-4, 5370-01-4;
 (valproic acid) 1069-66-5, 99-66-1; (amitriptyline) 50-48-6, 549-18-8;
 (opiate) 53663-61-9, 8002-76-4, 8008-60-4; (baclofen) 1134-47-0

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AN 1998090034 EMBASE

TI Pain rehabilitation. 4. New frontiers in the rehabilitative management of pain.

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SO Archives of Physical Medicine and Rehabilitation, (1998) 79/3 SUPPL. 1 (S65-S73).

Refs: 62

ISSN: 0003-9993 CODEN: APMHAI

CY United States

DT Journal; General Review

FS 008 Neurology and Neurosurgery

019 Rehabilitation and Physical Medicine

033 Orthopedic Surgery

037 Drug Literature Index

LA English

SL English

AB This self-directed learning module highlights the new frontiers in the rehabilitative management of acute, subacute, and chronic pain. As part of the chapter on pain in the Self-Directed Physiatric Education Program for practitioners and trainees in physical medicine and rehabilitation, this article contains sections on complementary medicine, manual medicine, mind- body techniques, **spinal** injections, **nonspinal** injections, **spinal** cord stimulators, implantable pumps, intravenous medications, and surgical interventions.

CT Medical Descriptors:

*pain: DT, drug therapy

*pain: RH, rehabilitation

*pain: SU, surgery

*pain: TH, therapy

spinal cord stimulation

alternative medicine

acupuncture

herbal medicine

homeopathy

chinese medicine

pelvis pain syndrome: TH, therapy

leg pain: DT, drug therapy

cervicobrachial neuralgia: DT, drug therapy

low back pain: DT, drug therapy

chemonucleolysis

intervertebral disk hernia: DT, drug therapy

diskography

nerve block

human

clinical trial
 epidural drug administration
 review

Drug Descriptors:

*herbaceous agent: DT, drug therapy
 *steroid: AD, drug administration
 *steroid: DT, drug therapy
 *lidocaine: AD, drug administration
 *lidocaine: DT, drug therapy
 *chymopapain: DT, drug therapy
 *botulinum toxin a: AD, drug administration
 *botulinum toxin a: DT, drug therapy

*analgesic agent: AD, drug administration
 *analgesic agent: DT, drug therapy
 methylprednisolone: CT, clinical trial
 methylprednisolone: AD, drug administration
 methylprednisolone: DT, drug therapy

RN (lidocaine) 137-58-6, 24847-67-4, 56934-02-2, 73-78-9; (chymopapain)
 9001-09-6; (botulinum toxin a) 93384-43-1;
 (methylprednisolone) 6923-42-8, 83-43-2

=> => fil wpix

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L134 ANSWER 1 OF 1 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
 AN 2003-646101 [61] WPIX
 DNC C2003-176812

TI Method of treating pain, involves administering agent sufficient to

paralyze muscles to intrinsic spinal muscles of mammal.

DC B04 P33
 IN LAMB, G B
 PA (ONEF-N) 1474791 ONTARIO LTD; (LAMB-I) LAMB G B
 CYC 102
 PI WO 2003063898 A2 20030807 (200361)* EN 28p A61K039-08 <--
 RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS
 LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT
 RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA
 ZM ZW
 CA 2369810 A1 20030730 (200361) EN A61K045-08
 US 2003143249 A1 20030731 (200361)# A61K039-08 <--
 ADT WO 2003063898 A2 WO 2003-CA127 20030129; CA 2369810 A1 CA 2002-2369810
 20020130; US 2003143249 A1 US 2002-62954 20020131
 PRAI CA 2002-2369810 20020130; US 2002-62954 20020131
 IC ICM A61K039-08; A61K045-08
 ICS A61H039-08; A61K038-18; A61P023-00; A61P029-00
 AB WO2003063898 A UPAB: 20030923
 NOVELTY - Method of treating pain, involves administering an agent
 sufficient to paralyze muscles to the intrinsic spinal muscles of a
 mammal.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
 following:

(1) a kit for treating pain, which comprises a paralyzing agent, an
 injection syringe with needle (22) and an **acupuncture** needle
 (26) with injector system;

(2) an intrinsic muscle injection kit, which comprises
botulinum toxin, saline for diluting the toxin, a syringe with
 needle for dispensing the saline into the toxin, a spinal
botulinum injection needle, an **acupuncture** needle with
 spinal **acupuncture** injector system and injection syringe(s); and

(3) the method of treating spinal compression disorder, which
 involves inserting an **acupuncture** needle between vertebrae (12)
 to release a spinal scar and injecting **botulinum** toxin into
 intrinsic spinal muscles.

ACTIVITY - Analgesic; Muscular-Gen.

40 years old young male with back pain, sciatica, radiculopathies and
 compression neuropathy was injected with 4-6 mouse units of
Botulinum toxin into the muscles at L4-S1. The patient had 2 year
 history of severe sciatica in right leg and severe low back pain and the
 CT scan of patient demonstrated 2 herniated disks of lumbar spine and
 spinal stenosis of the right lumbar spine causing compression of the L5
 and S1 nerve roots on the right. After 2 weeks, the disk herniation and
 sciatica were completely treated and after 3 months, back pain or nerve
 root impingement was completely treated in patient.

MECHANISM OF ACTION - None given.

USE - For treating pain and also for treating disk (14) herniation,
 facet joint disease of the spine or spinal stenosis. For the relaxation of
 an intrinsic spinal muscle and the treatment of spinal compression.

ADVANTAGE - The muscle paralyzing agent is effectively used for
 treating disk herniation, facet joint disease of the spine or spinal
 stenosis and **botulinum** toxin is effectively used for treating
 herniated disc.

DESCRIPTION OF DRAWING(S) - The figure shows side view of Segment of
 the spine, which indicates the sites for injection.
 vertebrae 12

disk 14

multifidus muscles 18

injection needle 22

acupuncture needle 26

Dwg.2/3
 FS CPI GMPI
 FA AB; GI; DCN
 MC CPI: B04-B04M; B04-H06; B07-D05; B10-B02F; B14-C01; B14-J05; B14-N01
 TECH UPTX: 20030923

TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Agent: The agent is **botulinum** toxin such as **botulinum** toxin type A or type B.

Preferred Composition: The toxin is provided in a vial containing 25,50,70 or 100 units and comprises at least one of chains A to G or fragments.

Preferred Method: The method of treating pain, involves administering tissue growth factor to enhance healing and **botulinum** toxin to paralyze intrinsic spinal muscles. The method further comprises the administration of a tissue growth factor to enhance healing.

Preferred Kit: The kit comprises local anesthetic such as Naropin, Xylocaine or Marcaine. The kit comprises tissue growth factor. The injection needle in the kit is 21/2-50-60 mm spinal injection needle having 20-25 gauge. The **acupuncture** needle is 21/250-60

acupuncture 0.25 mm-0.50 mm gauge needle with injector system. The injection syringe(s) is 1-4 cc/ml syringe with markings delineating dose line separations 5-20.

ABEX UPTX: 20030923

ADMINISTRATION - The toxin is administered as single injection or numerous injections between 1-30 mouse units/injection site.

=> => d his

(FILE 'HOME' ENTERED AT 08:24:47 ON 07 JAN 2004)
 SET COST OFF

FILE 'REGISTRY' ENTERED AT 08:24:59 ON 07 JAN 2004

	E BOTOX/CN
L1	1 S E3
	E BOTULIN/CN
L2	1 S E3
	E BOTULIN
L3	2156 S E3,E4,E7
	E CLOSTRIDIUM
L4	16633 S E3-E7
L5	2096 S L1-L3 AND L4
L6	2156 S L1-L3,L5
L7	14537 S L4 NOT L6

FILE 'HCAPLUS' ENTERED AT 08:26:45 ON 07 JAN 2004

	E ACUPUNTURE/CW
	E ACUPUNCTURE/CW
L8	894 S E3
	E ACUPUNCTURE/CT
L9	894 S E3-E5
	E E3+ALL
L10	894 S L8,L9
	E ACUPUNCT
L11	1092 S E4-E13
L12	1092 S L8-L11
L13	1570 S L6
L14	9110 S L7
L15	98 S BOTOX
L16	4505 S BOTULINUM
L17	22469 S CLOSTRIDIUM
	E BOTULIN/CT
L18	1171 S E3-E8
	E E8+ALL

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      E E2+ALL
L19      716 S E4
L20      528 S E3
L21      1774 S BOTULIN
      E CLOSTRIDIUM/CT
L22      1646 S E39-E46
      E E39+ALL
L23      80 S E7/BI
L24      3 S L12 AND L13-L23
L25      2 S L24 AND PAIN
      E SPINE/CT
      E E3+ALL
      E E3+ALL
L26      3325 S E9
      E E15+ALL
L27      23756 S E4
      E E9+ALL
L28      3882 S E5,E4+NT
      E LAMB G/AU
L29      13 S E3,E5,E45,E47,E48
L30      2 S L29 AND L12
L31      2 S L29 AND L13-L28
L32      1 S L29 AND L26-L28
L33      2 S L30-L32
L34      2 S L25,L33
L35      91 S L26-L28 AND L12
L36      164 S L26-L28 AND L13-L23
L37      1 S L35 AND L36
L38      67 S L35,L36 AND (?MUSCL? OR ?MUSCUL?)
L39      31 S L38 AND (NEEDL? OR SYRING? OR INJECT?)
      SEL DN AN 1 5 7 31
L40      4 S E1-E12 AND L39
L41      5 S L34,L37,L40 AND L8-L40
L42      48 S L35,L36 AND PAIN
      E PAIN/CT
L43      11328 S E3-E14
      E E3+ALL
L44      11167 S E3
      E E12+ALL
L45      1494 S E11,E12,E10+NT
      E NOCICEPT?
      E NOCICEP?
L46      8876 S NOCICEP?
      E ANALGES/CT
      E E4+NT
      E E1+ALL
L47      9081 S E3
L48      30593 S E5
L49      412 S L12-L23 AND L43-L48
L50      65 S L49 AND L26-L28
L51      16 S L50 AND (?MUSCL? OR ?MUSCUL?)
L52      28 S L50 AND (INJECT? OR SYRING? OR NEEDL?)
L53      43 S L50 AND L12
L54      2 S L51 AND L52,L53
L55      1 S L54 NOT HEPARIN
L56      72 S L42,L50-L53
L57      70 S L56 NOT L41
      SEL DN AN 23 28
L58      2 S E1-E6
L59      7 S L41,L55,L58 AND L8-L48
L60      72 S L56 AND (?SPINE? OR ?SPINAL?)
L61      4 S L59 AND L60
L62      7 S L59 AND (?SPINE? OR ?SPINAL?)

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L63 7 S L61,L62
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 09:00:26 ON 07 JAN 2004

L64 9 S E7-E15 AND L1-L7

FILE 'REGISTRY' ENTERED AT 09:00:49 ON 07 JAN 2004

FILE 'HCAPLUS' ENTERED AT 09:00:59 ON 07 JAN 2004

FILE 'MEDLINE' ENTERED AT 09:01:33 ON 07 JAN 2004

E ACUPUNCT

L65 9086 S E2-E37 OR ?ACUPUNCT?
E ACUPUNCTURE/CT
E E3+ALL

L66 178 S E3
E E5+ALL

L67 8175 S E4+NT

L68 9304 S L65-L67

L69 0 S L6

L70 343 S BOTOX

L71 152 S BOTULIN
E BOTULIN

L72 7400 S BOTULIN?
E BOTULINUM/CN

L73 4940 S E4,E16-E22
E BOTULINUM/CT
E E26+ALL

L74 1270 S E34+NT
E CLOSTRIDIUM/CT
E E4+ALL

L75 1640 S E21+NT

L76 14055 S E20+NT
E E26+ALL

L77 4839 S E26+NT

L78 17629 S E25+NT

L79 15 S L68 AND L70-L78
E SPINE/CT
E E3+ALL

L80 57988 S E8+NT
E SPINAL CORD/CT
E E3+ALL

L81 54450 S E4+NT
E SPINAL CORD/CT
E E4+ALL

L82 20724 S E18+NT
E SPINAL CORD/CT
E E47+ALL

L83 54219 S E4+NT
E HERNIA/CT
E E3+ALL

L84 23355 S E7+NT

L85 389 S L68 AND L80-L84

L86 678 S L70-L78 AND L80-L84

L87 0 S L85 AND L86

L88 190 S L85 AND (PAIN? OR ?NOCICEP?)

L89 1 S L88 AND ?TOXIN?

L90 18 S L88 AND (?MUSCL? OR ?MUSCUL?)
E NEUROTOXIN/CT
E E10+ALL

L91 187368 S E8+NT

L92 35 S L91 AND L68

L93 23 S L92 NOT L79

FILE 'EMBASE' ENTERED AT 09:15:31 ON 07 JAN 2004

L94 2778 S L6
 L95 21907 S L15-L17,L21,L22
 E BOTULIN/CT
 E E4+ALL
 L96 2778 S E2
 E BOTULINUM/CT
 E E43+ALL
 L97 3420 S E1
 E E1
 L98 337 S E53
 L99 24 S E78
 L100 28 S E79
 L101 18 S E85,E93
 L102 27 S E109
 L103 51 S E126
 L104 23 S E138
 L105 10 S E153
 L106 6162 S BOTULIN? TOXIN?
 L107 21919 S L94-L106
 L108 32 S L107 AND ?ACUPUN?
 E ACUPUNCTURE/CT
 L109 7737 S E3+NT OR E4+NT
 E E3+ALL
 L110 31 S L107 AND L109
 L111 32 S L108,L110
 L112 7 S L111 AND (?SPINE? OR ?SPINAL? OR ?HERNIA?)
 SEL DN AN 3 7
 L113 2 S L112 AND E1-E2
 E HERNICA/CT
 E HERNIA/CT
 L114 22363 S E3+NT OR E11+NT
 L115 340 S E31+NT
 E SPINAL CORD/CT
 L116 32800 S E3+NT
 L117 3782 S E70+NT
 L118 62745 S E108+NT
 L119 4 S L114-L118 AND L111
 L120 2 S L113 AND L119
 L121 2 S L119 NOT L120

FILE 'EMBASE' ENTERED AT 09:24:13 ON 07 JAN 2004

FILE 'WPIX' ENTERED AT 09:24:20 ON 07 JAN 2004

L122 2007 S L15/BIX OR L16/BIX OR L17/BIX OR L21/BIX OR L23/BIX
 E BOTULIN
 L123 2 S E1,E2/BIX
 L124 466 S E3-E18/BIX
 L125 2081 S L122-L124
 L126 1 S L125 AND ?ACUPUN?/BIX
 L127 336 S A61K039-08/IC, ICM, ICS, ICA, ICI
 L128 2267 S L125,L127
 L129 2 S L128 AND ?ACUPUN?/BIX
 L130 2 S L126,L129
 E LAMB G/AU
 L131 1 S E3,E4 AND L128
 L132 1 S L126,L131
 L133 2 S A61H039/IC, ICM, ICS, ICA, ICI AND L128
 L134 1 S L132 AND L122-L133

FILE 'WPIX' ENTERED AT 09:33:47 ON 07 JAN 2004

FILE 'DPCI' ENTERED AT 09:34:06 ON 07 JAN 2004
 E WO2003063898/PN
 E LAMB G/AU

FILE 'BIOSIS' ENTERED AT 09:34:39 ON 07 JAN 2004

L135 729 S L6
 L136 30150 S L15-L17,L21,L23
 E CLOSTRIDIUM/BC
 E BOTULIN/BC
 L137 30157 S L135,L136
 E CLOSTRIDIUM/ORGAN
 L138 677 S E3
 L139 1107 S E46-E56
 L140 30157 S L137-L139
 L141 8 S L140 AND ?ACUPUNC?
 E LAMB G/AU
 L142 34 S E3,E24
 L143 0 S L142 AND L140
 L144 0 S L142 AND ?ACUPUN?

=>